

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/955,737
Source:	1FW16
Date Processed by STIC:	8/6/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO-REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER

VERSION 4.2 PROGRAM, AGCESSIBLE THROUGH THE U.S. PATENT AND

TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm , EFS Submission User Manual cPAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
- Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
 U.S. Patent and Trademark Office, 220 20th Street S., Customer-Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1803, Arlington, VA 22202

Revised 05/17/04



IFW16

RAW SEQUENCE LISTING

DATE: 08/06/2004

PATENT APPLICATION: US/09/955,737

TIME: 10:54:14

Input Set : A:\16163-015001.TXT

Output Set: N:\CRF4\08062004\1955737.raw

```
4 <110> APPLICANT: Chopra , Rajiv
     Svenson, Kristine
                                                           Bees Not Comply
        Annis, Bethany
 6
        Akopian, Tatos N.
 7
                                                       Coffected Diskette Needed
        Bard, Jonathan A.
        Stahl, Mark L.
        Somers, William Stuart
13 <120> TITLE OF INVENTION: CRYSTAL STRUCTURE OF BACE AND USES
        THEREOF
16 <130> FILE REFERENCE: 16163-015001
18 <140> CURRENT APPLICATION NUMBER: US 09/955,737
19 <141> CURRENT FILING DATE: 2001-09-19
21 <150> PRIOR APPLICATION NUMBER: US 60/234,576
22 <151> PRIOR FILING DATE: 2000-09-22
24 <160> NUMBER OF SEQ ID NOS: 6
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 501
30 <212> TYPE: PRT
31 <213 > ORGANISM: Homo sapiens
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37
38 Gly Leu Gly Gly Ala Pro Leu Gly Leu Arg Leu Pro Arg Glu Thr Asp
40 Glu Glu Pro Glu Glu Pro Gly Arg Arg Gly Ser Phe Val Glu Met Val
42 Asp Asn Leu Arg Gly Lys Ser Gly Gln Gly Tyr Tyr Val Glu Met Thr
                     70
44 Val Gly Ser Pro Pro Gln Thr Leu Asn Ile Leu Val Asp Thr Gly Ser
                                      90
46 Ser Asn Phe Ala Val Gly Ala Ala Pro His Pro Phe Leu His Arg Tyr
47 100
                                 105
48 Tyr Gln Arg Gln Leu Ser Ser Thr Tyr Arg Asp Leu Arg Lys Gly Val
                             120
50 Tyr Val Pro Tyr Thr Gln Gly Lys Trp Glu Gly Glu Leu Gly Thr Asp
                         135
52 Leu Val Ser Ile Pro His Gly Pro Asn Val Thr Val Arg Ala Asn Ile
                                         155
                  150
54 Ala Ala Ile Thr Glu Ser Asp Lys Phe Phe Ile Asn Gly Ser Asn Trp
                  165
                                      170
```

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56 57	Glu	Gly	Ile	Leu 180	Gly	Leu	Ala	Tyr	Ala 185	Glu	Ile	Ala	Arg	Pro	Asp	Asp
	Ser	Leu	Glu 195		Phe	Phe	Asp	Ser 200		Val	Lys	Gln	Thr 205		Val	Pro
60	Asn	Leu 210			Leu	Gln	Leu 215		Gly	Ala	Gly	Phe 220		Leu	Asn	Gln
		Glu			Ala			Gly	Gly	Ser		Ile	Ile	Gly	Gly	
	225 Asp	His	Ser	Leu	Tyr	230 Thr	Gly	Ser	Leu	Trp	235 Tyr		Pro	Ile	Arg	240 Arg
65					245					250					255	
67		Trp		260					265					270		
68 69	Asp	Leu	Lys 275	Met	Asp	Cys	Lys	Glu 280	Tyr	Asn	Tyr	Asp	Lys 285	Ser	Ile	Val
	Asp	Ser 290	Gly	Thr	Thr	Asn	Leu 295	Arg	Leu	Pro	Lys	Lys	Val	Phe	Glu	Ala
	Ala	Val	Lys	Ser	Ile	Lys		Ala	Ser	Ser	Thr	-	Lys	Phe	Pro	Asp
73	305					310	•				315					320
74 75	Gly	Phe	Trp	Leu	Gly 325	Glu	Gln	Leu	Val	Cys 330	Trp	Gln	Ala	Gly	Thr 335	Thr
76 77	Pro	Trp	Asn	Ile 340	Phe	Pro	Val	Ile	Ser 345	Leu	Tyr	Leu	Met	Gly 350	Glu	Val
	Thr	Asn	Gln 355		Phe	Arg	Ile	Thr 360	Ile	Leu	Pro	Gln	Gln 365	Tyr	Leu	Arg
	Pro	Val		Asp	Val	Ala	Thr		Gln	Asp	Asp	Cys		Lys	Phe	Ala
81	_	370	_			_	375					380				~)
		Ser	Gln	Ser	Ser	Thr 390	GIY	Thr	Val	Met	G1y 395	Ala	Val	ire	Met	400
	385 Glv	Phe	Tvr	Val	Val		Asp	Ara	Ala	Ara		Ara	Ile	Glv	Phe	
85	_		_		405					410					415	_
86 87	Val	Ser	Ala	Cys 420	His	Val	His	Asp	Glu 425	Phe	Arg	Thr	Ala	Ala 430	Val	Glu
	Gly	Pro	Phe	Val	Thr	Leu	Asp	Met	Glu	Asp	Cys	Gly	Tyr	Asn	Ile	Pro
89		_	435	-			_	440				_	445			
	GIn	Thr	Asp	GIu	Ser	Thr	Leu 455	Met	Thr	11e	Ala	1yr 460	vai	мет	Ата	Ala
91	Tle	450 Cys	Δla	Leu	Phe	Met		Pro	Len	Cvs	Leu		Val	Cvs	Gln	Trp
	465	Cys	,,,,	БСС	1110	470	200	110		010	475			-1-		480
		Cys	Leu	Arg	Cys		Arg	Gln	Gln	His	Asp	Asp	Phe	Ala	Asp	Asp
95	_				485					490					495	
	Ile	Ser	Leu		Lys											
97	014			500	2											
)> SI 11> I														
		12> 5												•		
102 <213> ORGANISM: Homo sapiens																
		00> 5									•					
105 Met Leu Pro Gly Leu Ala Leu Leu Leu Leu Ala Ala Trp Thr Val Trp																
106	5 1				5					10					15	

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Output Set: N:\CRF4\08062004\1955737.raw

	107 108	Ala	Leu	Glu	Val 20	Pro	Thr	Asp	Gly	Asn 25	Ala	Gly	Leu	Leu	Ala 30	Glu	Pro
	109 110	Gln	Ile	Ala 35	Met	Phe	Суѕ	Gly	Arg	Leu	Asn	Met	His	Met 45	Asn	Val	Gln
	111 112	Asn	Gly 50		Trp	Asp	Ser	Asp 55	Pro	Ser	Gly	Thr	Lys 60	Thr	Cys	Ile	Asp
				Glu	Gly	Ile	Leu 70	Gln	Tyr	Cys	Gln	Glu 75	Val	Tyr	Pro	Glu	Leu 80
_			Ile	Thr	Asn	Val 85	-	Glu	Ala	Asn	Gln 90	Pro	Val	Thr	Ile	Gln 95	Asn
		Trp	Cys	Lys	Arg		Arg	Lys	Gln	Cys 105	Lys	Thr	His	Pro	His 110	Phe	Val
		Ile		Tyr 115	Arg	Cys	Leu	Val	Gly 120		Phe	Val	Ser	Asp 125	Ala	Leu	Leu
		Val			Lys	Cys	Lys	Phe 135	Leu	His	Gln	Glu	Arg 140	Met	Asp	Val	Cys
	123	Gĺu 145		His	Leu	His	Trp 150			Val	Ala	Lys 155	Glu	Thr	Cys	Ser	Glu 160
			Ser	Thr	Asn	Leu 165		Asp	Tyr	Gly	Met 170	Leu	Leu	Pro	Cys	Gly 175	Ile
		Asp	Lys	Phe	Arg 180	Gly	Val	Glu	Phe	Val 185	Cys	Cys	Pro	Leu	Ala 190	Glu	Glu
		Ser	Asp	Asn 195	Val	Asp	Ser	Ala	Asp 200	Ala	Glu	Glu	Asp	Asp 205	Ser	Asp	Val
	131 132	Trp	Trp 210	Gly	Gly	Ala	Asp	Thr 215	Asp	Tyr	Ala	Asp	Gly 220	Ser	Glu	Asp	Lys
		Val 225	Val	Glu	Val	Ala	Glu 230	Glu	Glu	Glu	Val	Ala 235	Glu	Val	Glu	Glu	Glu 240
	136				Asp	245					250					255	
	137 138	Glu	Ala	Glu	Glu 260	Pro	Tyr	Glu	Glu	Ala 265	Thr	Glu	Arg	Thr	Thr 270	Ser	Ile
	140			275	Thr				280					285			
	142		290		Thr			295					300				
	144	305			Gly		310					315					320
	146				Glu	325					330		•			335	
	148		_		Glu 340					345					350		
	150			355	Val				360					365			
	152		370		Ala			375					380				
	154	385			Ala		390			•		395					400
	155	Tyr	Ile	Thr	Ala	Leu	Gln	Ala	Val	Pro	Pro	Arg	Pro	Arg	His	Val	Phe

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PATENT APPLICATION: US/09/955,737 TIME: 10:54:14

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Output Set: N:\CRF4\08062004\I955737.raw

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405
                                    410
  157 Asn Met Leu Lys Lys Tyr Val Arg Ala Glu Gln Lys Asp Arg Gln His
  158 420
                                 425
  159 Thr Leu Lys His Phe Glu His Val Arg Met Val Asp Pro Lys Lys Ala
  160 435
                             440
  161 Ala Gln Ile Arg Ser Gln Val Met Thr His Leu Arg Val Ile Tyr Glu
               455 460
  163 Arg Met Asn Gln Ser Leu Ser Leu Leu Tyr Asn Val Pro Ala Val Ala
                                        475
            470
  165 Glu Glu Ile Gln Asp Glu Val Asp Glu Leu Leu Gln Lys Glu Gln Asn
                           490
  167 Tyr Ser Asp Asp Val Leu Ala Asn Met Ile Ser Glu Pro Arg Ile Ser
      500 505
  169 Tyr Gly Asn Asp Ala Leu Met Pro Ser Leu Thr Glu Thr Lys Thr Thr
                             520
      515
  171 Val Glu Leu Leu Pro Val Asn Gly Glu Phe Ser Leu Asp Asp Leu Gln
                         535
  173 Pro Trp His Ser Phe Gly Ala Asp Ser Val Pro Ala Asn Thr Glu Asn
                   550
                                        555
  175 Glu Val Glu Pro Val Asp Ala Arg Pro Ala Ala Asp Arg Gly Leu Thr
                                     570
                   565
  177 Thr Arg Pro Gly Ser Gly Leu Thr Asn Ile Lys Thr Glu Glu Ile Ser
                                 585
      580
  179 Glu Val Lys Met Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val
                              600
  180 595
  181 His His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys
       610
                         615
  183 Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val
                     630
                                        635
  185 Ile Val Ile Thr Leu Val Met Leu Lys Lys Gln Tyr Thr Ser Ile
                                    650
                   645
  187 His His Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg
  188 660
                                 665
  189 His Leu Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr Lys
  190 675
  191 Phe Phe Glu Gln Met Gln Asn
  192 690
  194 <210> SEQ ID NO: 3
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  196 <212> TYPE: PRT
  197 <213> ORGANISM: Artificial Sequence
  199 <220> FEATURE:
  200 <223> OTHER INFORMATION: APP inhibitor peptide
-> 202 <221> NAME/KEY: VARIANT
  203 <222> LOCATION: 5
  204 <223> OTHER INFORMATION: Xaa = Sta = Statine
-> 206 <400> 3
-> 207 Ser Glu Val Asn Xaa Val Ala Glu Phe
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208 1

DATE: 08/06/2004

TIME: 10:54:14

Input Set : A:\16163-015001.TXT Output Set: N:\CRF4\08062004\1955737.raw 210 <210> SEQ ID NO: 4 211 <211> LENGTH: 29 212 <212> TYPE: DNA 213 <213> ORGANISM: Artificial Sequence 215 <220> FEATURE: 216 <223> OTHER INFORMATION: Primer 218 <400> SEQUENCE: 4 219 gctctagaac ccagcacggc atccggctg 221 <210> SEQ ID NO: 5 222 <211> LENGTH: 42 223 <212> TYPE: DNA 224 <213> ORGANISM: Artificial Sequence 226 <220> FEATURE: 227 <223> OTHER INFORMATION: Primer 229 <400> SEQUENCE: 5 230 ccaagcatge ggeegeaata ggetatggte atgagggttg ac 232 <210> SEQ ID NO: 6 233 <211> LENGTH: 12 234 <212> TYPE: PRT 235 <213> ORGANISM: Artificial Sequence 237 <220> FEATURE: 238 <223> OTHER INFORMATION: Synthetically generated peptide 240 <221> NAME/KEY: VARIANT 241 <222> LOCATION: 1 242 <223> OTHER INFORMATION: Xaa = Abz (= amino benzoic acid

Dpa = 9,10-diphenylanthracene

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/955,737

244 <221> VARIANT 245 <222> LOCATION: 12

> 248 <40Q> 6

250

246 <223> OTHER INFORMATION: Xaa =

249 Xaa Ser Glu Val Asn Leu Asp Ala Glu Phe Arg

RAW SEQUENCE LISTING ERROR SUMMARY

PATENT APPLICATION: US/09/955,737

DATE: 08/06/2004 TIME: 10:54:15

Input Set : A:\16163-015001.TXT

Output Set: N:\CRF4\08062004\1955737.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 5 Seq#:6; Xaa Pos. 1,12 VERIFICATION SUMMARY

L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0

DATE: 08/06/2004

TIME: 10:54:15 PATENT APPLICATION: US/09/955,737

Input Set : A:\16163-015001.TXT

Output Set: N:\CRF4\08062004\1955737.raw

L:202 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:206 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3 L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0 L:240 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:244 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6 L:248 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6